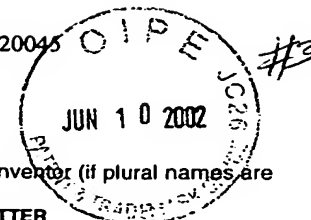


DECLARATION AND POWERS OF ATTORNEY



As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled
**SATELLITE TELEVISION SYSTEM GROUND STATION HAVING WIDEBAND MULTI-CHANNEL LNB CONVERTER/TRANSMITTER
 ARCHITECTURE WITH CONTROLLED UPLINK TRANSMISSION**

the specification of which was filed on 2/26/02 as Application Serial No. 10/084,773 and was amended on _____, or, if not identified here by filing date and serial number, is attached hereto.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 USC 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate by me or my representatives or assigns for this invention having a filing date before that of the application on which priority is claimed.

Application No. _____ in _____ on _____ priority claimed ☐ Yes ☐ No

Application No. _____ in _____ on _____ priority claimed ☐ Yes ☐ No

Application No. _____ in _____ on _____ priority claimed ☐ Yes ☐ No

I hereby claim the benefit under 35 USC 119(e) of any United States provisional application(s) as listed below.

Application No. _____ Filed _____

Application No. _____ Filed _____

I hereby claim the benefit under 35 USC 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 USC 112, I acknowledge the duty to disclose material information as defined in 37 CFR 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application

Serial No. _____ Filed _____ ☐ patented ☐ pending ☐ abandoned

Serial No. _____ Filed _____ ☐ patented ☐ pending ☐ abandoned

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 USC 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint, individually and collectively, the following as my/our attorney or agent with full power of substitution and revocation, to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith:

<u>Joseph S. Tripoli</u>	Registration No. <u>26,040</u>	and
<u>Joseph J. Laks</u>	Registration No. <u>27,914</u>	and
<u>Robert D. Shedd</u>	Registration No. <u>36,269</u>	and
<u>Kuniyuki Akiyama</u>	Registration No. <u>43,314</u>	

PLEASE ADDRESS ALL

COMMUNICATIONS TO: JOSEPH S. TRIPOLI

PATENT OPERATIONS - THOMSON MULTIMEDIA
 LICENSING INC.

TWO INDEPENDENCE WAY

PRINCETON, NEW JERSEY 08543-5312

Sole or Joint Inventor (1)	<u>Paul Gothard Knutson</u>	<u>[Signature]</u>
	(Type or Print)	(Signature in Full. No initials.)
Citizenship	<u>U.S.A.</u>	Date <u>April 15, 2002</u>
Post Office Address	<u>5 Huron Way, Lawrenceville, New Jersey 08648, U.S.A.</u>	
Residence	<u>as above</u>	
Sole or Joint Inventor (2)	<u>Kumar Ramaswamy</u>	<u>[Signature]</u>
	(Type or Print)	(Signature in Full. No initials.)
Citizenship	<u>India</u>	Date <u>5th April 2002</u>
Post Office Address	<u>7701 Tamarron Drive, Plainsboro, New Jersey 08648, U.S.A.</u>	
Residence	<u>as above</u>	
Sole or Joint Inventor (3)	<u>Max Ward Muterspaugh</u>	<u>[Signature]</u>
	(Type or Print)	(Signature in Full. No initials.)
Citizenship	<u>U.S.A.</u>	Date _____
Post Office Address	<u>7353 North Layman Ave., Indianapolis, Indiana 46250, U.S.A.</u>	
Residence	<u>as above</u>	

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 Application No. _____ in _____ on _____ priority claimed ☐ Yes ☐ No
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 Application No. _____ Filed _____

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Serial No. _____ Filed _____ ☐ patented ☐ pending ☐ abandoned
 Serial No. _____ Filed _____ ☐ patented ☐ pending ☐ abandoned

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 USC 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

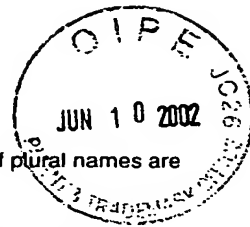
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<u>Kuniyuki Akiyama</u>	Registration No. <u>43,314</u>	

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COMMUNICATIONS TO: JOSEPH S. TRIPOLI

PATENT OPERATIONS - THOMSON MULTIMEDIA
 LICENSING INC.
 TWO INDEPENDENCE WAY
 PRINCETON, NEW JERSEY 08543-5312



Sole or Joint Inventor (1)	<u>Paul Gothard Knutson</u>	(Type or Print)	(Signature in Full. No initials.)
Citizenship	<u>U.S.A.</u>		Date
Post Office Address	<u>5 Huron Way, Lawrenceville, New Jersey 08648, U.S.A.</u>		
Residence	<u>as above</u>		
Sole or Joint Inventor (2)	<u>Kumar Ramaswamy</u>	(Type or Print)	(Signature in Full. No initials.)
Citizenship	<u>India</u>		Date
Post Office Address	<u>7701 Tamarron Drive, Plainsboro, New Jersey 08648, U.S.A.</u>		
Residence	<u>as above</u>		
Sole or Joint Inventor (3)	<u>Max Ward Muterspaugh</u>	(Type or Print)	(Signature in Full. No initials.)
Citizenship	<u>U.S.A.</u>		Date <u>April 8, 2002</u>
Post Office Address	<u>7353 North Layman Ave., Indianapolis, Indiana 46250, U.S.A.</u>		
Residence	<u>as above</u>		